

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number
WO 2005/008523 A3

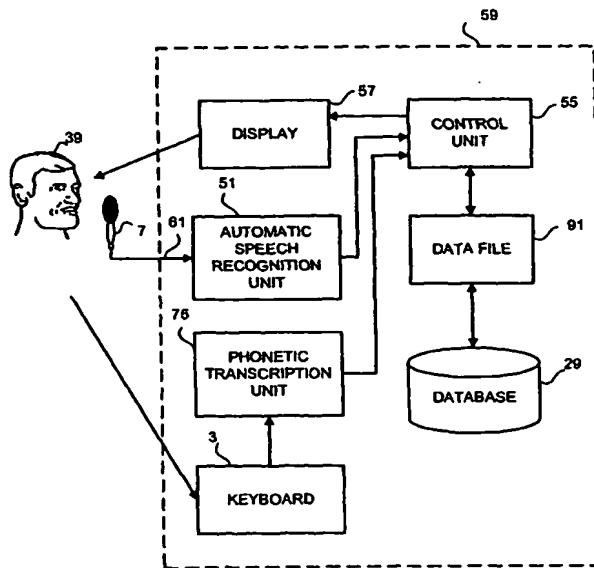
- (51) International Patent Classification⁷: **G06F 17/30.**
G10L 15/08
- (21) International Application Number:
PCT/GB2004/003084
- (22) International Filing Date: **16 July 2004 (16.07.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
0316669.1 16 July 2003 (16.07.2003) GB
- (71) Applicant (for all designated States except US): **CANON KABUSHIKI KAISHA [JP/JP]; 30-2 3-Chome Shimo-maruko, Ohta-Ku, Tokyo (JP).**
- (71) Applicant and
(72) Inventor (for all designated States except US): **JOSIF FOVSKI, Ljubomir [MK/GB]; 1B Cumberland Street, Staines, Middlesex TW18 3EF (GB).**
- (74) Agents: **BERESFORD, Keith, Denis, Lewis et al.; Beresford & Co, 16 High Holborn, London WC1V 6BX (GB).**
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AB, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PI, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: LATTICE MATCHING



WO 2005/008523 A3

(57) Abstract: A system is described for matching lattices such as phoneme lattices generated by an automatic speech recognition unit. The system can be used to retrieve files from a database by comparing a query lattice with annotation lattices associated with the data files that can be retrieved, and by retrieving the data files having an annotation lattice most similar to the query lattice.



(88) Date of publication of the International search report:
28 April 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.